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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,874	10/31/2003	Stephen Philip Cheatle	1509-455	8999
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HEWLETT-PACKARD COMPANY			LIVEDALEN, BRIAN J	
Intellectual Pro	perty Administration			
P.O. Box 272400			ART UNIT	PAPER NUMBER
Fort Collins, CO 80527-2400			2878	
	DATE MA		DATE MAILED: 08/23/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)	
Office Action Occurrence	10/697,874	CHEATLE, STEP	HEN PHILIP
Office Action Summary	Examiner	Art Unit	1 W
	Brian J. Livedalen	2878	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	_•		
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdray	vn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-12 and 14-19</u> is/are rejected.			
7) Claim(s) <u>13</u> is/are objected to		į	
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10)⊠ The drawing(s) filed on <u>31 October 2003</u> is/are:	a)⊠ accepted or b)☐ objected	I to by the Examin	er.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	jected to. See 37 Cl	FR 1.121(d).
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P7	ГО-152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).	·
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents			
3. Copies of the certified copies of the prior	·	ed in this National	Stage
application from the International Bureau	* **		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
AMachan author			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTC	D-152)
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DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

Claims 1-12 and 14-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimono et al. (JP 10153946) in view of Tsuboi et al. (5610678).

In regard to claims 1 and 4, Shimono discloses (fig 1) an image capture device (16), a detector arrangement for detecting the relative motion of the head and body of a person (10 and 11), and a combiner (13) adapted to be coupled with the image capture device and the detector arrangement for moving a field of view adapted to be captured by the image capture device according to the detected relative motion of the head and body of a person. Shimono remains silent regarding the image capture device to be body-mountable. However, Tsuboi discloses (fig. 1) a body-mountable image capture device (302), a camera, that is actuated according to the movement of the individual's head (column 2, lines 53-58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the body mounting of Tsuboi to the image capture device of Shimono so that the image capture device would capture the image viewed by the individual.

In regard to claim 2, Shimono in view of Tsuboi discloses (Shimono fig. 1) separate motion detectors for the head (10) and the body (11) of the person.

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In regard to claim 3, Shimono in view of Tsuboi discloses (Shimono fig. 1) motion detectors for the head (10) and the body (11) of the person, and the motion detectors are adapted to be mounted on the person.

In regard to claim 5, Shimono in view of Tsuboi discloses (Shimono fig. 1) a computing device (13), which includes the combiner (paragraph 0032).

In regard to claim 6, Shimono in view of Tsuboi discloses (Shimono fig. 1) a combiner, which includes an image capture device adjustment section to move the field of view of the image capture device (paragraphs 0032 and 0033).

In regard to claim 7, Shimono in view of Tsuboi discloses (Shimono fig. 1) a combiner, which is adapted to respond to the detector arrangement and to derive an indication rotation of the head of the user relative to the body of the user, and the image capture device adjustment section is operable to move the field of view of the image capture device by an amount corresponding to the indication of head rotation relative to the body of the user (paragraphs 00333 and 0034).

In regard to claim 8, Shimono in view of Tsuboi discloses (Shimono fig. 1) a combiner, which is adapted to respond to the detector arrangement and to derive an indication rotation of the head of the user relative to the body of the user, and the image capture device adjustment section is operable to move the field of view of the image capture device by an amount greater than the head rotation relative to the body of the user (paragraphs 006, 0034).

In regard to claim 9, Shimono in view of Tsuboi discloses (Shimono fig. 1) motion detectors for the head (10), and the motion detector is operable to be secured to the head of the person.

In regard to claim 10, Shimono in view of Tsuboi discloses (Shimono fig. 1) motion detectors for the head (10) but remains silent to whether or not the motion detector is operable to detect lateral rotation of the user. However, Tsuboi further discloses a head motion detector that is operable to detect lateral rotation (column 27, lines 21-24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the lateral rotation detecting of Tsuboi to the image capture device of Shimono in view of Tsuboi in order to more effectively capture the image viewed by the individual.

In regard to claim 11, Shimono in view of Tsuboi Tsuboi discloses the invention as set forth above but fails to disclose the motion sensor included in the image capture device. However, it is of routine skill in the art to make separate components integral. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the image capture device and the motion sensor to make the invention more compact.

In regard to claim 12, Shimono in view of Tsuboi discloses the invention as set forth above but fails to disclose a distance sensor. However, Tsuboi further discloses a distance sensor for correction of parallax errors (column 10, lines 41-61). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the distance finder of Tsuboi to the image capture device of Shimono in view of

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Tsuboi in order to provide a range finder to focus the camera and correct parallax errors.

In regard to claim 14, Shimono in view of Tsuboi discloses (Shimono fig. 1) motion detectors for the head (10) but remains silent to whether or not the motion detector is operable to detect a tilting away from the horizontal. However, Tsuboi further discloses a head motion detector that is operable to detect a tilting away from the horizontal (column 27, lines 21-24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the tilting detecting of Tsuboi to the image capture device of Shimono in view of Tsuboi in order to more effectively capture the image viewed by the individual.

In regard to claims 15 and 16 Shimono discloses (fig. 1) an image capture device including the method of detecting motion of the head relative to the body and moving a field of view of the image capture device according to the detected motion of the head with respect to the detected motion of the body. Shimono remains silent regarding the image capture device to be body-mountable. However, Tsuboi discloses (fig. 1) a body-mountable image capture device (302) that is actuated according to the movement of the individual's head and secured to the trunk of the body (column 2, lines 53-58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the body mounting of Tsuboi to the image capture device of Shimono so that the image capture device would capture the image viewed by the individual.

In regard to claim 17, Shimono in view of Tsuboi discloses (Shimono fig. 1) the field of view of the image capture device is moved by an amount corresponding to the indication of head rotation relative to the body of the user (paragraphs 00333 and 0034).

In regard to claim 18, Shimono in view of Tsuboi discloses (Shimono fig. 1) the field of view of the image capture device being moved by an amount greater than the head rotation relative to the body of the user (paragraphs 006, 0034).

In regard to claim 19, Shimono in view of Tsuboi discloses (Shimono fig. 1) detecting the motion of the head (10) but remains silent to whether or not the motion detector is operable to detect lateral rotation of the user. However, Tsuboi further discloses a head motion detector that is operable to detect lateral rotation (column 27, lines 21-24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the lateral rotation detecting of Tsuboi to the image capture device of Shimono in view of Tsuboi in order to more effectively capture the image viewed by the individual.

Allowable Subject Matter

Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose or make obvious the calibrator operable to calibrate a forward direction in response to an indication of an average output of the motion detector arrangement as set forth in claim 13.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Livedalen whose telephone number is (571) 272-2715. The examiner can normally be reached on 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

bjl

DAVID PORTA Supervisory patent examiner Technology center 2800